

Methionyl tRNA synthetase cloned DNA sequence [SEQ ID NO:1]

1 ATGGCTAAAG AACATTTA TATAACAACC CCAATAACT ATCCTAGTGG
51 GAATTACAT ATAGGACATG CATATTCTAC ACTGGCTGGA GATGTTATTG
101 CAAGATATAA GAGAACGCAA GGATATGATG TTCTGTATT GACTGGAACG
151 GATGAAACACG GTCAAAAAAT TCAAGAAAA GCTCAAAAAG CTGGTAAGAC
201 AGAAATTGAA TATTGGATG AGATGATTGC TGGAAATTAA CAATGTGGG
251 CTAAGCTTGA AATTCAAT GATGATTAA TCAGAACAC TGAAACCGT
301 CATAAACATG TCGTTGAGCA AGTGTGAA CGTTTATTAA AGCAAGGTGA
351 TATCTATTAA GGTGAATATG AAGGTTGGTA TTCTGTTCG GATGAAACAT

FIG 1

401 ACTATACAGA GTCACAAATTA GTAGACCCAC AATACGAAAA CGGTAAATT
451 ATGGTGGCA AAAGTCCACA TTCTGGACAC GAAGTTGAAC TAGTTAAAGA
501 AGAAAGTTAT TTCTTTATA TTAGTAATA TACAGACCGT TTATAGAGT
551 TCTATGACCA AAATCCAGAT TTTATACAAC CACCATCAAG AAAAATGAA
601 ATGATTAACA ACTTCATTA ACCAGGACTT GCTGATTAG CTGTTCTCG
651 TACATCATTT AACTGGGGTG TCCATGTTCC GTCTAATCCA AAACATGTTG
701 TTTATGTTG GATTGATGCG TTAGTTAAT ATATTCAGC ATTAGGCTAT
751 TTATCAGATG ATGAGTCACT ATTTAACAAA TAATGGCCAG CAGATATTCA
801 TTTATGGCT AAGGAATTG TGCGATTCCA CTCATTATT TGGCTTATT

FIG 1A

851 TATTGATGGC ATTAGACTTA CCGTTACCTA AAAAGTCCTT TGCACATGGT
901 TGGATTITGA TGAAAGATGG AAAATGAGT AAATCTAAAG GTAATGTGT
951 AGACCCATAAT ATTTAATG ATCGCTATGG TTAGATGCT ACACGTTATT
1001 ATCTTAATGCG TGAATTACCA TTGGTTCAAG ATGGCGTATT TACACCTGAA
1051 GCATTTGTTG AGCGTACAAA TTTCGATCTA GCAAATGACT TAGGTAACCTT
1101 AGTAACCGT ACGATTCTA TGGTTAATAA GTACTTTGAT GGGCAATTAC
1151 CAGCGTATCA AGGTCCACTT CATGAATTAG ATGAAGAAAT GGAAGCTATG
1201 GCTTTAGAAA CAGTGAAAG CTACACTGAA AGCATGGAA GTTGCAATT

FIG 1B

1251 TTCTGTGGCA TTATCTACGG TATGGAAGTT TATAAGTAGA ACGAATAAGT
1301 ATATTCGACGA AACAAACGCCCT TGGGTATTAG CTAAGGACGA TAGCCAAAA
1351 GATATGCTTAG GCAATGTAAT GGCTCACTTA GTTGAAATA TTCGTTATGC
1401 AGCTGTGTTA TTACGGTCCAT TCTTAACACA TGGCCGGAAA GAGATTTTG
1451 AACCAATTGAA CATAAACCAAT CCTCAATTAA TGGAAATTAG TAGTTAGAG
1501 CAATATGGTG TGCTTACTGAA GTCAAATTATG GTTACTGGGC AACCTAAACC
1551 TATTTCCCA AGATGGATA GCGAAGCGGA AATGCAAT ATCAAAGAAT
1601 CAATGCAACC GCCTGCTACT GAAGAGGAAA AAGAAGAGAT TCCTAGCAA
1651 CCTCAAATTG ATATTAAGA CTTTGATAAA GTTGAAATTA AGGCAGCAAC

FIG 1C

1701 GATTATTGAT GCTGAACATG TTAAGAAGTC AGATAAGCTT TTAAAAATTC
1751 AAGTAGACTT AGATTC TGAA CAAAGACAAA TTGTATCAGG AATTGCCAAA
1801 TTCTATACAC CAGATGATAT TATGGTAAA AAAGTAGCAG TTGTACTAA
1851 CCTGAAACCA GCTAAATTAA TGGGACAAA ATCTGAAAGGT ATGATATTAT
1901 CTGCTGAAAA AGATGGTGTA TTAACCTTAG TAAGTTACC AAGTGCAATT
1951 CCAAATGGTG CAGTGATCAA ATAA

FIG 1D

Methionyl tRNA synthetase deduced amino acid sequence [SEQ ID NO:2]

1 MAKETFYITT PIYPPSGNLH IGHAYSTVAG DVIALRYKRMQ GYDVVRILGT
51 DEHGQKIQEK AQKAGKTEIE YLDEMIAGIK QIWIWAKLEISN DDFIRTTEER
101 HKHVVVEQVFE RLLKQGDIYL GEYEGWYSVP DETYYTESQL VDPQYENGKI
151 IGGKSPDSGH EVELVKEESY FFNIISKYDR LLEFYDQNPD FIOPPSRKNE
201 MINNF1KPG1 ADLAVSRSTS FNGVHVPSNP KHVVVVWIDA LVNYISALGY
251 LSDDESLFNK YWPADIHILMA KEIVRFHSII WPTILLMALDL PLPKKVFAHG
301 WILMKDGKMS KSKGNVVDPN ILIDRYGLDA TRYVLMREL P FGSDGVFTPE
351 AFVERTINFDL ANDLGNLVNR TISMVNKYFD GELPAYQGPL HELDEEMAM
401 ALETVKSYTE SMESLQFSVA LSTVWKFISR TNKYVIDETTP WVLAKDDSQK

FIG 2

7/7

451 DMLGNVMAHL VENIRYAVL LRPFPLTHAPK EFEQLNNN PQFMEEFSSLE
501 QYGVLTESIM VTGQPKPIFP RLSEAEIAY IKESMQPAT EEEKEEIPSK
551 PQIDIKDFDK VEIKAATIID AEHVKKSDL LKIQVLDSE QRQIVSGIAK
601 FYTPDDITGK KVAWVTNLKP AKLMGQKSEG MILSAEKDGV LTLVSLPSAI
651 PNGAVIK

FIG 2A